

AMENDMENTS TO THE CLAIMS

Claim 1. (original) An optical disc apparatus comprising:

an optical pickup for irradiating a light beam through a two-focus lens onto a signal recording surface of an optical disc including the signal recording surface where digital data is recorded to be optically readable, and for detecting reflection light thereof;

drive control means for driving and controlling the two-focus lens in an optical axis direction of the light beam;

focus error center value measurement means for measuring a focus error center value detected by the optical pickup;

focus error signal generation means for generating a focus error signal subjected to balance-adjustment based on the reflection light and a variable coefficient  $K_f$ ; and

focus balance control means for causing the drive control means to control a focus balance, based on the focus error center value measured by the focus error center value measurement means, and the focus error signal generated by the focus error signal generation means and subjected to the balance adjustment.

Claim 2. (original) The optical disc apparatus according to claim 1, further comprising:

focus bias voltage supply means for supplying the drive control means with a focus bias voltage; and

focus bias control means for causing the focus bias voltage supply means to supply the drive control means with the focus bias voltage, thereby to cause the drive control means to control a focus bias.

Claim 3. (original) The optical disc apparatus according to claim 1, wherein the two-focus lens forms two focus positions by one single objective lens, corresponding to a plurality of discs having respectively different disc substrate thicknesses.

b' Claim 4. (original) The optical disc apparatus according to claim 1, wherein the focus error center value measurement means measures an error center value with the two-focus lens kept sufficiently distant from a just-focus position.

A\ Claim 5. (original) The optical disc apparatus according to claim 1, wherein a plurality of values including an initial value used as a reference are set and stored for the coefficient  $K_f$ .

Claim 6. (original) An optical disc apparatus comprising:  
an optical pickup for irradiating a light beam through a two-focus lens onto a signal recording surface of an optical disc including the signal recording surface where digital data is recorded to be optically readable, and for detecting reflection light thereof;  
drive control means for driving and controlling the two-focus lens in a radial direction of the optical disc;  
tracking error center value measurement means for measuring a tracking error center value detected by the optical pickup;  
tracking error signal generation means for generating a tracking error signal subjected to balance-adjustment based on the reflection light and a variable coefficient

Kt; and

tracking balance control means for causing the drive control means to control a tracking balance, based on the tracking error center value measured by the tracking error center value measurement means, and the tracking error signal generated by the tracking error signal generation means and subjected to the balance adjustment.

Claim 7. (original) The optical disc apparatus according to claim 6, further comprising:

tracking bias voltage supply means for supplying the drive control means with a tracking bias voltage; and

tracking bias control means for causing the tracking bias voltage supply means to supply the drive control means with the tracking bias voltage, thereby to cause the drive control means to control a tracking bias.

Claim 8. (original) The optical disc apparatus according to claim 6, wherein the two-focus lens forms two focus positions by one single objective lens, corresponding to a plurality of discs having respectively different disc substrate thicknesses.

Claim 9. (original) The optical disc apparatus according to claim 6, wherein the tracking error center value measurement means measures an error center value with the two-focus lens kept sufficiently distant from a just-focus position.

Claim 10. (original) The optical disc apparatus according to claim 6, wherein a

plurality of values including, an initial value used as a reference are set and stored for the  
coefficient  $K_t$ .

A.

B.

Claims 11-19. (canceled)

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